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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

### Complete If Known

Application Number	10/893,076
Filing Date	10/24/2003
First Named Inventor	Wei, et al.
Art Unit	1775
Examiner Name	LAVILLA, MICHAEL E
Attorney Docket Number	SWRI-2890-04

Sheet 1 of 1

[illegible][illegible]

**Examiner  
Signature**

Date Considered

3/18/06

\*EXAMINER Initial V reference considered, whether or not citation is in conformance with MPEP 808. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \*Applicant's unique citation designation number (optional). \*See Kind's Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. \*Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \*For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. \*Applicant is to place a check mark here if English language translation is attached.

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20040715

PTC/SB/D&amp;A (08-03)

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Substitute for form 1469PTD

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 2

## Complete If Known

Application Number	10/693,076
Filing Date	10/24/2003
First Named Inventor	Wei, et al.
Art Unit	1775
Examiner Name	Not Yet Assigned
Attorney Docket Number	SwR-2890-04

## U. S. PATENT DOCUMENTS

[illegible]

**FOREIGN PATENT DOCUMENTS**

[illegible]

**Examiner  
Signature**

1999.

Date Considered

3/18/07

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). \* See Kinda Code of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. \* Enter Office that issued the document, by the two-letter code (WIPO Standard 57.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST.18 if possible. Applicant is to place a check mark here if English language translation is attached.

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20040609

PTO/88/089 (08-03)

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

2

of

2

Complete if Known

Application Number	10/693,076
Filing Date	10/24/2003
First Named Inventor	Wei, et al.
Art Unit	1775
Examiner Name	Not Yet Assigned
Attorney Docket Number	SwRI-2890-04

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
ML		HOSOKAWA, et al., Self-Sputtering Phenomena in High-Rate Coaxial Cylindrical Magnetron Sputtering, J. Vac. Sci. Technol., Jan/Feb. 1977, pp. 143-146, Vol. 14 No. 1.	

Examiner Signature	<i>Camille</i>	Date Considered	3/18/06
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.68. The information is required to obtain or retain a benefit by the public which is to the (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
SwRI-2890-04APPLICATION NUMBER  
10/693,076LIST OF INFORMATION PROVIDED  
BY APPLICANT

(Use several sheets if necessary)

APPLICANT  
Ronghua WEI, et. al.FILING DATE  
October 24, 2003GROUP ART UNIT  
1775

JUL 24 2007

REFERENCE DESIGNATION: U.S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
ML	AA	3,952,334	04-27-1976	Bokros			
ML	AB	2004/0115377 A1	12-11-2003	Wei			
ML	AC	7,052,736	05-30-2006	Wei			
ML	AD	6,767,436 B2	07-2004	Wei			
ML	AE	6,193,852 B1	02-2001	Yumshtyk			
ML	AF	5,026,466 A	06-1991	Wesemeyer			
ML	AG	2006/0076231 A1	04-13-2006	Wei			
ML	AH	4,221,652	09-09-1980	Kuriyama			
ML	AI	5,272,735	12-21-1993	Bryan			
ML	AJ	4,009,090	02-22-1977	Veigel			
ML	AK	4,169,477	10-02-1979	Bokros			
ML	AL	4,444,643	04-1984	Garrett			
ML	AM	4,179,351	12-1979	Hawton			
ML	AN	5,096,562	03-1992	Boozenny			
ML	AO	2006/0076235 A1	04-13-2006	Wei			

REFERENCE DESIGNATION: FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation Yes No
ML	AP	UK 2-125-441 A	07-07-1983	United Kingdom			

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)		
ML	AQ	USPTO, First Office Action for Application Number 10/167,189, July 16, 2003.
ML	AR	THE MORRIS LAW FIRM, P.C. Response to First Office Action for Application Number 10/167,189, September 29, 2003.
ML	AS	USPTO, First Office Action for Application Number 10/807,039, September 26, 2005.
ML	AT	THE MORRIS LAW FIRMS, P.C., Response to First Office Action for Application Number 10/807,039, December 21, 2005.
ML	AU	HOSOKAWA, et. al., Self-Sputtering Phenomena in High-Rate Coaxial Cylindrical Magnetron Sputtering, J. Vac. Sci. Technol. Vol. 14 No.1, Jan./Feb. 1977, pp 143-146.
ML	AV	PCT, International Search Report for PCT/US2005/24110 of 31 January 2006.
ML	AW	PCT, Written Opinion for PCT/US2005/24110 of 31 January 2006.
ML	AX	PCT, International Preliminary Report on Patentability for PCT/US2005024110 of 26 April 2007.

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2. This is not a representation that a search has been made.

FORM PTO-1449 (Modified)

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ATTY. DOCKET NO.  
SwRI-2890-04APPLICATION NUMBER  
10/693,076APPLICANT  
Ronghua WEI et. al.FILING DATE  
October 24, 2003GROUP ART UNIT  
1775

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

<i>ML</i>	BA	MALIK et. al. Development of an energetic ion assisted mixing and deposition process for TiNx and diamondlike carbon films, using a co-axial geometry in plasma source ion implantation; J. Vac. Sci. Technol, Nov/Dec 1997, 2875-2879, A15, American Vacuum Society.
<i>ML</i>	BB	ENSINGER, An Apparatus for sputter coating the inner walls of tubes, Rev. Sci. Instrum, January 1996, 318-321, 67(1), American Institute of Physics.
<i>ML</i>	BC	USPTO, First Office Action for Application Number 10/963,341, July, 21, 2006
<i>ML</i>	BC	THE MORRIS LAW FIRM, P.C. Response to First Office Action for Application Number 10/963,341, September 15, 2006.
<i>ML</i>	BE	USPTO, Second Office Action for Application Number 10/963,341, November 20, 2006.
<i>ML</i>	BF	THE MORRIS LAW FIRM, P.C. Response to Second Office Action for Application Number 10/963,341, January 19, 2007.
<i>ML</i>	BG	English Translation of Japanese Publication No. JP 4-107268 also referred to as Japanese Patent Application No. H02-224696, Published April 8, 1992, Entitled "Processing Device of Mixed Gas," Inventor: Naoyoshi Fujiwara, Application: TOSHIBAB Corporation, pp 381-385.
<i>ML</i>	BH	USPTO, First Office Action after RCE for Application Number 10/963,341, February 15, 2007.
<i>ML</i>	BI	THE MORRIS LAW FIRM, P.C. Response to First Office Action after RCE for Application Number 10/963,341, April 18, 2007.
<i>ML</i>	BJ	USPTO, Second Office Action after RCE for Application Number 10/963,341, July 6, 2007.
<i>ML</i>	BK	THE MORRIS LAW FIRM, P.C. Article 19 Amendments for PCT/US2005/24110, March 24, 2006
<i>ML</i>	BL	WIPO, WO 2006/044002 A2 International Application for PCT/US Number 2005/024110, April 27, 2006.
<i>ML</i>	BM	PCT, International Search Report for PCT/US05/24119, July 11, 2006.
<i>ML</i>	BN	PCT, Written Opinion for PCT/US05/24119, July 11, 2006.
<i>ML</i>	BO	PCT, International Preliminary Report on Patentability for Application PCT/US05/24119, April 26, 2007
	BP	
	BQ	
	BR	
	BS	
	BT	

EXAMINER

*Labille*

DATE CONSIDERED

*10/13/07*

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Sheet 1 of 1

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ATTY. DOCKET NO.  
SWRI-2890-04APPLICATION NUMBER  
10/893,076APPLICANT  
Ronghua Wei, et al.FILING DATE  
October 24, 2003GROUP ART UNIT  
1775

Examiner Initial	Document No.	Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>Mr</i>	AA	4,407,713	10-14-1983	Zega		
<i>Mr</i>	AB	8,338,777	06-15-2002	White		
<i>Mr</i>	AC	4,478,703	10-23-1984	Edamura		
<i>Mr</i>	AD	4,376,025	03-08-1983	Zega		
<i>Mr</i>	AE	4,960,753	10-02-1990	Collins, et al.		
<i>Mr</i>	AF	4,818,358	04-04-1989	Jones, et al.		
<i>Mr</i>	AG	5,015,493	05-14-1991	Gruen		
	AH					
	AI					

Document No.	Date	Country	Class	Subclass	Translation Yes	No
<i>Mr</i>	AL	JP 59-215484	12-12-1984	Japan		X
	AM					
	AN					
	AO					

	AR	
	AS	
	AT	

EXAMINER

*Camille*

DATE CONSIDERED

6/11/06

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